



CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory



Job No: CACE/BBMP/NH/W No.15/2022-2023

Date: 18.07.2022

TEST REPORT ON PAVING BITUMEN

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
BIS Code	IS 73:2013, IS 1203:1978, IS 1208:1978, IS 1205:1978, IS 1448(P-69):1969
Date of Testing	18.07.2022
Type of Mix	Dense Graded Bituminous Macadam , VG 30
Source of Location	Hot Mix Plant

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

SLNo	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	52	Min 45
2	Softening point, 0C	50	Min 47
3	Ductility at 250C, cm	>100	Min 40
4	Flash Point, 0C	282	Min 220

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರ
ಎ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಕೋಟೆ, ಜಿ.ಕೆ.ಎಂ.ಡಿ
ಬೆಂಗಳೂರು-560073.

(Signature)

For CIVIL AIM CONSULTANTS & ENGINEERS

(Signature)
Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 23.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Type of Mix	:	: Dense Graded Bituminous Macadam
Date of Testing	:	: 23.07.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.25	10.12	9 Kn (min)
2	Marshal flow, mm	3.68	3.58	2 - 4
3	Percent air voids in Mineral Aggregate	13.79	14.35	13 - 15
4	Voids in Compacted Mix	3.84	4.26	3 - 6
5	Percent Voids filled with Bitumen	68.91	69.57	65 - 75
6	Density, g/cc	2.25	2.27	--

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ಎ. ದಾಸರಹಳ್ಳಿ ಹುಪ್ಪೆ ದಿವಾನ
ಬಾಗಲಕೋಟೆ, ಜಿ.ಒ.ಎಂ.ಸಿ
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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 23.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Type of Mix	:	: Dense Graded Bituminous Macadam
Date of Testing	:	: 23.07.2022

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.26	10.06	9 Kn (min)
2	Marshal flow, mm	3.67	3.75	2 - 4
3	Percent air voids in Mineral Aggregate	13.77	14.30	13 - 15
4	Voids in Compacted Mix	3.80	4.22	3 - 6
5	Percent Voids filled with Bitumen	68.89	69.55	65 - 75
6	Density, g/cc	2.23	2.27	--

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ಎ. ದಾಸರಾಜ್ ಉಪ ನಿರ್ದೇಶಕರು

ಬಾಂಗಲೂರು. ಕೆ.ಎಂ.ಎಂ.ಎ.

ಪಿಂಚುಕುರು - 560073

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 23.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX
AASHTO T 164 & AASHTO T 30

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Date of Testing	23.07.2022

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477.5	477
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	22.50	23.00
7. Bitumen content in %	4.50	4.60
8. Average	4.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	34.6	34.6	7.2	92.8	90 - 100
19	74.1	108.7	22.8	77.2	71 - 95
13.2	66.5	175.2	36.7	63.3	56 - 80
4.75	75	250.2	52.4	47.6	38 - 54
2.360	96.5	346.7	72.6	27.4	28 - 42
0.300	96.4	443.1	92.8	7.2	7 - 21
0.075	21.5	464.6	97.3	2.7	2 - 8

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	36.7	36.7	7.7	92.3	90 - 100
19	74.3	111	23.3	76.7	71 - 95
13.2	66.5	177.5	37.2	62.8	56 - 80
4.75	84.60	262.1	54.9	45.1	38 - 54
2.360	78.5	340.6	71.4	28.6	28 - 42
0.300	98.3	438.9	92.0	8.0	7 - 21
0.075	23.5	462.4	96.9	3.1	2 - 8

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 23.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX AASHTO T 164 & AASHTO T 30

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Date of Testing	23.07.2022

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477.5	477.5
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	22.50	22.50
7. Bitumen content in %	4.50	4.50
8. Average	4.50	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	35.2	35.2	7.4	92.6	90 - 100
19	74.1	109.3	22.9	77.1	71 - 95
13.2	66.2	175.5	36.8	63.2	56 - 80
4.75	84.9	260.4	54.5	45.5	38 - 54
2.360	76.2	336.6	70.5	29.5	28 - 42
0.300	96.9	433.5	90.8	9.2	7 - 21
0.075	22.3	455.8	95.5	4.5	2 - 8

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	36.8	36.8	7.7	92.3	90 - 100
19	73.5	110.3	23.1	76.9	71 - 95
13.2	67.8	178.1	37.3	62.7	56 - 80
4.75	84.80	262.9	55.1	44.9	38 - 54
2.360	78.5	341.4	71.5	28.5	28 - 42
0.300	98.6	440	92.1	7.9	7 - 21
0.075	29.4	469.4	98.3	1.7	2 - 8

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 25.07.2022

Aggregate Impact Value

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
BIS Code	IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	25.07.2022

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	84	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297.5	
4	Aggregate Impact value = percent fines	22.05	22.32	22.19
	$100 * (W_2/W_1)$ percent			

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದರ್ಶಿ
ರಾಜ್ಯದ ಸಾರ್ವಜನಿಕ ಕಾರ್ಯದರ್ಶಿ
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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NT/W No.15/2022-2023 NABL Accredited As Per ISO/IEC 17025:2017 Laboratory Date: 25.07.2022

Aggregate Gradation Test

IS : 2386 Part I

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
BIS Code	IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	25.07.2022

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	415	8.30	8.30	91.70	90 - 100	
9.5	482	9.64	17.94	82.06	70 - 88	
4.75	635	12.70	30.64	69.36	53 - 71	
2.36	682	13.64	44.28	55.72	42 - 58	
1.18	520	10.40	54.68	45.32	34 - 48	
0.600	546	10.92	65.60	34.40	26 - 38	
0.300	489	9.78	75.38	24.62	18 - 28	
0.150	366	7.32	82.70	17.30	12 - 20	
0.075	482	9.64	92.34	7.66	4 - 10	

Total Weight of Sample: 5000 gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	420	8.40	8.40	91.60	90 - 100	
9.5	549	10.98	19.38	80.62	70 - 88	
4.75	682	13.64	33.02	66.98	53 - 71	
2.36	533	10.66	43.68	56.32	42 - 58	
1.18	559	11.18	54.86	45.14	34 - 48	
0.600	546	10.92	65.78	34.22	26 - 38	
0.300	682	13.64	79.42	20.58	18 - 28	
0.150	198	3.96	83.38	16.62	12 - 20	
0.075	482	9.64	93.02	6.98	4 - 10	

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date : 25.07.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	25.07.2022

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	11.6	12.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	13.2	13.4	
	Combined Flakiness & Elongation index	24.80	25.60	

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ಬಾಗಲೂರುಂಟಿ, ಜಿ.ಟಿ.ಎಂ.ಸಿ
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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date : 27.07.2022

Specific Gravity And Water Absorption Test

Client	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	25.07.2022 to 27.07.2022

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2024	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1265	1267	1269	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2018	2020	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_s)$ g	751	751	751	
6	Weight of oven dried aggregate	W_4 g	2010	2011	2012	
7	Specific Gravity	$W_4 / (W_3 - W_s)$	2.676	2.678	2.679	2.678
8	Apparent Specific gravity	$W_4 / (W_4 - W_s)$	2.698	2.703	2.708	2.703
9	Water Absorption	$((W_3 - W_4) * 100) / W_4$	0.30%	0.35%	0.40%	0.35%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0% (MORTH table 500.16)

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 25.07.2022

TEST REPORT

Client	:	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
IS Code	:	: IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	: Hot mix Plant, Bangalore, VG 30
Date of testing	:	: 25.07.2022

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	48	Min 45
2	Softening point, °C	54	Min. 47
3	Ductility at 27°C, cm	> 100	Min. 40
4	Flash Point, °C	272	Min. 220

Note:

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ಒ. ದಾಸರಹಳ್ಳಿ ಹಾವಿ ವಿಭಾಗ
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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 30.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Source of location	:	: Hot mix Plant, Bangalore
Type of Mix	:	: Bituminous Concrete
Date of Testing	:	: 30.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.44	10.82	9 Kn (min)
2	Marshal flow, mm	2.69	2.65	2 - 4
3	Percent air voids in Mineral Aggregate	13.45	14.52	13 - 15
4	Voids in Compacted Mix	3.84	4.15	3 - 6
5	Percent Voids filled with Bitumen	69.29	70.12	65 - 75
6	Density, g/cc	2.25	2.26	--

Note:

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ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಎ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಕೋಟೆ, ಜಿ.ಒ.ಎಂ.ಸಿ
ಫೋನ್: 560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.

Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com



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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 30.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Source of location	:	: Hot mix Plant, Bangalore
Type of Mix	:	: Bituminous Concrete
Date of Testing	:	: 30.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.25	9.58	9 Kn (min)
2	Marshal flow, mm	3.67	2.45	2 - 4
3	Percent air voids in Mineral Aggregate	13.46	14.52	13 - 15
4	Voids in Compacted Mix	3.78	4.61	3 - 6
5	Percent Voids filled with Bitumen	70.12	71.15	65 - 75
6	Density, g/cc	2.25	2.26	--

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ಬಾನ್ಸೂರು, ಜಿ.ಆರ್.ಎಂ.ಸಿ
ಫೋನ್: 560073

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 30.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	30.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.49	10.87	9 Kn (min)
2	Marshal flow, mm	2.74	2.96	2 - 4
3	Percent air voids in Mineral Aggregate	13.50	14.57	13 - 15
4	Voids in Compacted Mix	3.89	4.20	3 - 6
5	Percent Voids filled with Bitumen	69.34	70.17	65 - 75
6	Density, g/cc	2.24	2.26	--

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ಮ. ದಾಖಲೆಗಳ ಉಪ ನಿರ್ದೇಶಕರು
ಬಾಂಸರಗುಂಟೆ, ಜಿ.ಬಿ.ಎಂ.ಪಿ
ಫೋನ್: 560073

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date: 30.07.2022

TEST REPORT ON STABILITY OF MIX

Client	:	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	: Sri. Nagaraja Hosur, Contractor, Bangalore.
Name of the Work	:	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
Source of location	:	: Hot mix Plant, Bangalore
Type of Mix	:	: Bituminous Concrete
Date of Testing	:	: 30.07.2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.23	9.54	9 Kn (min)
2	Marshal flow, mm	3.65	2.34	2 - 4
3	Percent air voids in Mineral Aggregate	13.43	14.55	13 - 15
4	Voids in Compacted Mix	3.71	4.5	3 - 6
5	Percent Voids filled with Bitumen	70.4	71.10	65 - 75
6	Density, g/cc	2.23	2.26	--

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ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಅಧೀನದಲ್ಲಿ
ಒಂದು ದಶಕಕ್ಕೂ ಹೆಚ್ಚಿನ
ಪ್ರಾಯದಿಂದ, 2022-2023

2022-2023

2022-2023

For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date : 30.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Nagaraja Hosur, Contractor, Bangalore.
NAME OF THE WORK	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	30.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	466	473
3. Weight of Asphalt and Mineral matter Extracted, g	34	27
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	34	27
6. Weight of Bitumen Extracted, g. (corrected)	6.80	5.40
7. Bitumen content in %	6.10	
8. Average		

GRADATION AFTER EXTRACTION

Test 1					Requirement as per MORTH table 500.17
SIEVE SIZE mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.8	13.8	3.0	97.0	90 - 100
9.5	65.8	79.6	17.1	82.9	70 - 88
4.75	90.3	169.9	36.5	63.5	53 - 71
2.36	46.2	216.1	46.4	53.6	42 - 58
1.18	35.8	251.9	54.1	45.9	34 - 48
0.600	55.3	307.2	65.9	34.1	26 - 38
0.300	42.8	350	75.1	24.9	18 - 28
0.150	34.9	384.9	82.6	17.4	12 - 20
0.075	42.8	427.7	91.8	8.2	4 - 10

Test 2					Requirement as per MORTH table 500.17
SIEVE SIZE mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.9	14.9	3.2	96.8	90 - 100
9.5	66.2	81.1	17.1	82.9	70 - 88
4.75	92.8	173.9	36.8	63.2	53 - 71
2.36	45.3	219.2	46.3	53.7	42 - 58
1.18	48.2	267.4	56.5	43.5	34 - 48
0.600	56.3	323.7	68.4	31.6	26 - 38
0.300	45.8	369.5	78.1	21.9	18 - 28
0.150	37.9	407.4	86.1	13.9	12 - 20
0.075	32.6	440	93.0	7.0	4 - 10

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date : 30.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Nagaraja Hosur, Contractor, Bangalore.
NAME OF THE WORK	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	30.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	466.5	473.2
3. Weight of Asphalt and Mineral matter Extracted, g	33.5	26.8
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	33.5	26.8
7. Bitumen content in %	6.70	5.36
8. Average	6.03	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	12.2	12.2	2.6	97.4	90 - 100
9.5	68.9	81.1	17.4	82.6	70 - 88
4.75	92.6	173.7	37.2	62.8	53 - 71
2.36	42.5	216.2	46.3	53.7	42 - 58
1.18	36.8	253	54.2	45.8	34 - 48
0.600	50.9	303.9	65.1	34.9	26 - 38
0.300	46.3	350.2	75.1	24.9	18 - 28
0.150	35.8	386	82.7	17.3	12 - 20
0.075	46.9	432.9	92.8	7.2	4 - 10

SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.5	14.5	3.1	96.9	90 - 100
9.5	62.8	77.3	16.3	83.7	70 - 88
4.75	90.9	168.2	35.5	64.5	53 - 71
2.36	46.5	214.7	45.4	54.6	42 - 58
1.18	43.8	258.5	54.6	45.4	34 - 48
0.600	52.4	310.9	65.7	34.3	26 - 38
0.300	49.3	360.2	76.1	23.9	18 - 28
0.150	35.6	395.8	83.6	16.4	12 - 20
0.075	40.8	436.6	92.3	7.7	4 - 10

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	: Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Nagaraja Hosur, Contractor, Bangalore.
NAME OF THE WORK	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	30.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	468	472
3. Weight of Asphalt and Mineral matter Extracted, g	32	28
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	32	28
7. Bitumen content in %	6.40	5.60
8. Average	6.00	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.9	13.9	3.0	97.0	90 - 100
9.5	65.6	79.5	17.0	83.0	70 - 88
4.75	90.5	170	36.3	63.7	53 - 71
2.36	46.5	216.5	46.3	53.7	42 - 58
1.18	36	252.5	54.0	46.0	34 - 48
0.600	55.9	308.4	65.9	34.1	26 - 38
0.300	43	351.4	75.1	24.9	18 - 28
0.150	35.1	386.5	82.6	17.4	12 - 20
0.075	43.1	429.6	91.8	8.2	4 - 10

SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	15.1	15.1	3.2	96.8	90 - 100
9.5	66	81.1	17.2	82.8	70 - 88
4.75	92.6	173.7	36.8	63.2	53 - 71
2.36	45.1	218.8	46.4	53.6	42 - 58
1.18	48.1	266.9	56.5	43.5	34 - 48
0.600	56.1	323	68.4	31.6	26 - 38
0.300	45.6	368.6	78.1	21.9	18 - 28
0.150	38.5	407.1	86.3	13.8	12 - 20
0.075	31.6	438.7	92.9	7.1	4 - 10

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/NH/W No.15/2022-2023

Date : 30.07.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	:Assistant Executive Engineer, T Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	: Sri. Nagaraja Hosur, Contractor, Bangalore.
NAME OF THE WORK	: De-Silting and Re-Setting of Drain and Re-Asphalting to M S Ramaiah Road and Other Roads Dasarahalli Ward No 15
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	30.07.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	470.5	469
3. Weight of Asphalt and Mineral matter Extracted, g	29.5	31
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	29.5	31
7. Bitumen content in %	5.90	6.20
8. Average	6.05	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	13.1	13.1	2.8	97.2	90 - 100
9.5	69.1	82.2	17.5	82.5	70 - 88
4.75	92.1	174.3	37.0	63.0	53 - 71
2.36	42.2	216.5	46.0	54.0	42 - 58
1.18	37	253.5	53.9	46.1	34 - 48
0.600	51.1	304.6	64.7	35.3	26 - 38
0.300	46.5	351.1	74.6	25.4	18 - 28
0.150	35.1	386.2	82.1	17.9	12 - 20
0.075	47.1	433.3	92.1	7.9	4 - 10

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	14.3	14.3	3.0	97.0	90 - 100
9.5	62.5	76.8	16.4	83.6	70 - 88
4.75	91.1	167.9	35.8	64.2	53 - 71
2.36	46.7	214.6	45.8	54.2	42 - 58
1.18	43.5	258.1	55.0	45.0	34 - 48
0.600	52.1	310.2	66.1	33.9	26 - 38
0.300	49.1	359.3	76.6	23.4	18 - 28
0.150	35.2	394.5	84.1	15.9	12 - 20
0.075	40.5	435	92.8	7.2	4 - 10

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